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Kit for remote control of the shutter release of photographic equipment and the like and orientatable head designed for mounting the said kit.

Technical field of the invention

This invention relates to a kit for remote control of the shutter release of photographic equipment and the like and an orientatable head designed for mounting the said kit.

Background Art

In photography there is a need for remote control of the shutter release of photographic equipment so that the latter can be remotely operated.

Sheathed metal wire controls (e.g. Bowden cables) are typically used for this purpose, or in the case of more recent equipment, controls of the electric or electronic type. The former act on the photographic equipment as mechanical relays between the shutter release on the equipment and a remote plunger action; the latter perform the same functions through electrical signals transmitted through conductors.

In every case it is typical that the release plunger has no links with the orientatable head which supports the photographic equipment or is rigidly secured thereto.

In the former situation the device having the shutter release of the electric or electronic type is potentially exposed to damage when the equipment and the head on which it is mounted are handled; in the latter situation the device is rather unsuitable or wholly unsuitable for removal from the head for any contingent need.

Furthermore, because the head and the device form a single whole, the two parts cannot be marketed separately, thus penalising the selling price of the head in the case of purchasers who do not require remote control of the shutter release. In neither case is it possible to move the device by adjusting its position to different orientations of the head.

Disclosure of the invention

The main object of the invention is to provide a kit which makes it possible to overcome all the disadvantages mentioned with reference to the cited prior art.

A further object of the invention is to help protect the remote control device when it is not in use.

Yet another object of the invention is that of providing a kit and a head or other support for aiming the photographic equipment supported thereon 5 which is sufficiently versatile to permit different relative mutual positions in such a way that it is possible to take photographs without releasing the handle of the aiming support.

These objects and yet others which will be apparent below are accomplished by the invention through a kit for remote control of the shutter 10 release of photographic equipment and the like and an orientatable head designed for mounting the same constructed in accordance with the following claims.

#### Brief description of the drawings

The features and advantages of the invention will be more apparent 15 from the detailed description of a preferred but not exclusive embodiment below illustrated indicatively and non-restrictively with reference to the appended drawings in which:

- Figure 1 is a frontal perspective view of a kit according to the invention,
- Figure 2 is a rear perspective view of the control device of the kit in 20 Figure 1,
- Figure 3 is an elevation view of a head for photographic equipment equipped with the kit in Figure 1,
- Figure 4 is a perspective view of a component of the kit in a variant embodiment,
- 25 - Figures 5 to 8 show different positions of a photographic head with an aiming handle and corresponding positions of the kit according to this invention.

In the figures, 1 indicates as a whole a kit for remote control of the shutter release of an item of photographic equipment 2 mounted on an 30 orientatable head 3.

- Kit 1 comprises a remote control device 4 of the electrical type having an elongated body which carries respectively on its two axially opposing sides a release switch 5 and a jack-type socket 6, 7 for a cable which is in itself known for connection to photographic equipment 2 in order to control its shutter release through switch 5. Kit 1 also comprises a mount 8 for mounting the said device in order to support the same on head 3 or other equipment. Mount 8 has an annular sheath-like strip 9 which is not completely closed on itself in order to form a gap 10 which extends axially. Gap 10 renders strip 9 resiliently partable.
- 10 Strip 9 forms a seat 11 in which control device 4 is removably housed in a substantially complete manner, or with only the release switch and the corresponding surrounding part projecting from the strip. When inserted in seat 11 device 4 brings about elastic extension of strip 9 so that it remains firmly held in seat 11.

15 Mount 8 also comprises an appendage 12 extending outside seat 11 and having a hole 13 and/or other suitable fixing means to secure the mount to head 3 through a fixing screw 13a.

Preferably kit 1 comprises a second mount 14 which differs from the above only in the position of appendage 12a with respect to strip 9. Similar 20 details of mounts 8 and 14, excepting those indicated above, are identified by the same numbers.

Kit 1 is particularly suitable for fitting to a head 15 of the type with a pistol-grip aiming handle, as illustrated in Figures 5 to 8, which is provided for this purpose with a plurality of alternative operating positions in which kit 1 25 can be alternatively fixed.

Corresponding first, second, third and fourth attachment means 16, 17, 18 and 19, each including a flat portion against which appendage 12 pierced by a threaded hole for screw 13a abuts, may be placed in these positions.

In these operating positions mount 8 can therefore be alternatively 30 fixed with appendage 12 abutting against the flat portion to receive the shutter release remote control device in the position most appropriate for the different positions of the head.

Kit 1 can however also be used with different heads as indicated in Figure 3.

The invention thus fulfils the objects stated, offering many advantages with respect to what has hitherto been known. Of these the following are  
5 particularly valuable. In the first place the kit can be marketed separately from the head, thus forming a supplementary accessory. In the second place it can be positioned at will in different operating positions which with the handle in Figures 5 to 8 makes it possible to take photographs without releasing the handle of the opening support. In addition to this the remote control device is  
10 well protected in all circumstances.